

CONFIDENTIAL

See: JT
Howie: B 25X1

March 15, 1960

*File! See'd 4/8
3/22/60
1650
Air Fed Incinerator*

Dear Sir:

This letter report summarizes the research performed under
Task Order No. RR from January 11 through January 31, 1960.

The objective of this research program is to develop a
reduced-size, paper-burning incinerator based on the design of the
larger Model 1 unit which resulted from the previous effort under
Task Order No. Z. It is contemplated that the proposed unit, here-
after to be referred to as the Model 2 incinerator, will have a
maximum outside diameter of about 24 inches and an over-all height
(excluding the stack) of approximately 64 inches; the ID of the liner
will be approximately 20 inches.

The design effort under this Task Order was initiated by
conducting a preliminary study of possibly applicable blowers and
motors, in an attempt to obtain some indication of the amount of
space which is likely to be needed for placement of these components
within the lower part of the cylindrical shell. As a result, a
section 22 inches in height was tentatively reserved below the com-
bustion chamber for the blower. The air-flow requirements of a
suitable blower will be determined experimentally with an existing
blower during the development program. We anticipate that the burning
rate of the proposed unit will be between 80 and 130 pounds per hour.

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The design of the outer shell, the loading door, and the radiation shield was completed, and shop drawings for these components were prepared. The dimensions of the liner (16-gage, Type 310 stainless steel) were also fixed, but final details of the louvers and air ports were not completed. Also, a simple cardboard mock-up of the proposed unit was constructed in preparation for a discussion of the proposed design with you early in February.

All of the materials needed for the construction of the proposed unit either are on hand or were ordered. Construction was started on some of the parts which were unlikely to require changing after your review of the design. We estimate that the construction will be completed early in March.

The total appropriation on this Task Order was \$10,070. As of February 1, 1960, the unexpended balance was approximately \$8,600.

Sincerely,

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ABW/ba

In Duplicate

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